

Monoclonal Antibody to AURKB

Cat. #: Mab-607031

Description:

AURKB (aurora kinase B, AIK2 or aurora-B), with 344-amino acid protein (about 39kDa), localizes to microtubules near kinetochores, specifically to the specialized microtubules called K-fibers. AURKB is a mitotic protein kinase, which phosphorylates histone H3 and regulates Chromosomal segregation during mitosis and meiosis. It may regulate several stages of mitosis such as centrosome separation, chromosome segregation and cytokinesis. Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. ARK-2 transcripts are present at high levels in human thymus and fetal liver. ARK-2 protein levels are maximal during both S and G2/M phases

Immunogen/Specificity:

Ni-NTA purified truncated recombinant AURKB expressed in E. Coli strain BL21 (DE3)

Applications :

Western Blot: 1: 500- 1: 2,000

ELISA: Proposed dilution 1: 10,000.

Determining optimal working dilutions by titration test.

Formulation

Crude ascites.

Reference:

1. Song J et al. Immunity 22:621-31 (2005).

2. Kapoor P et al. Mol Cell Biol 25:4934-45 (2005).

Clone Number: 13E8D3

Isotype: IgG1

Species: Human

Storage and Stability: stored at -20 C

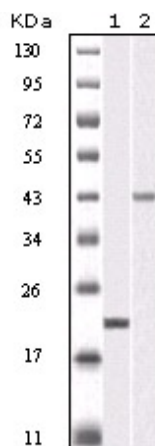


Figure 1: Western blot analysis using anti- human AURKB monoclonal antibody against truncated AURKB recombinant protein(1),SK-N-SH cell lysate(2).